

FIGURE 1

	M	W	V	P	S	R	R	H	L	C	L	T	F	L	L	V	C				
CT	CGA	GCC	ATG	TGG	GTC	CCC	AGC	CGC	CGC	CAC	CTC	TGT	CTG	ACC	TTC	CTG	CTA	GTC	TGT	17	
	V	L	A	A	I	F	F	L	N	V	Y	Q	D	L	F	Y	S	G	L	D	59
	GTT	TTA	GCA	GCA	ATT	TTC	TTC	CTG	AAC	GTC	TAT	CAA	GAC	CTC	TTT	TAC	AGT	GGC	TTA	GAC	37
	L	L	A	L	C	P	D	H	N	V	V	S	S	P	V	A	I	F	C	L	119
CTG	CTG	GCC	CTG	TGT	CCA	GAC	CAT	AAC	GTG	GTA	TCA	TCT	CCC	GTG	GCC	ATA	TTC	TGC	CTG	57	
	A	G	T	P	V	H	P	N	A	S	D	S	C	P	K	H	P	A	S	F	179
GCG	GGC	ACG	CCG	GTA	CAC	CCC	AAC	GCC	TCC	GAT	TCC	TGT	CCC	AAG	CAT	CCT	GCC	TCC	TTT	77	
	S	G	T	W	T	I	Y	P	D	G	R	F	G	N	Q	M	G	Q	Y	A	239
TCC	GGG	ACC	TGG	ACT	ATT	TAC	CCG	GAT	GGC	CGG	TTT	GGG	AAC	CAG	ATG	GGA	CAG	TAT	GCC	97	
	T	L	L	A	L	A	Q	L	N	G	R	Q	A	F	I	Q	P	A	M	H	299
ACG	CTG	CTG	GCC	CTG	CGG	CAG	CTC	AAC	GGC	CGC	CAG	GCC	TTC	ATC	CAG	CCT	GCC	ATG	CAC	117	
	A	V	L	A	P	V	F	R	I	T	L	P	V	L	A	P	E	V	D	R	359
GCC	GTC	CTG	GCC	CCC	GTG	TTC	CGC	ATC	ACG	CTG	CCT	GTC	CTG	GCG	CCC	GAG	GTA	GAC	AGG	137	
	H	A	P	W	R	E	L	E	L	H	D	W	M	S	E	D	Y	A	H	L	419
CAC	GCT	CCT	TGG	CGG	GAG	CTG	GAG	CTT	CAC	GAC	TGG	ATG	TCC	GAG	GAT	TAT	GCC	CAC	TTA	157	
	K	E	P	W	L	K	L	T	G	F	P	C	S	W	T	F	F	H	H	L	479
AAG	GAG	CCC	TGG	CTG	AAG	CTC	ACC	GGC	TTC	CCC	TGC	TCC	TGG	ACC	TTC	TTC	CAC	CAC	CTC	177	
	R	E	Q	I	R	S	E	F	T	L	H	D	H	L	R	Q	E	A	Q	G	539
CGG	GAG	CAG	ATC	CGC	AGC	GAG	TTC	ACC	CTG	CAC	GAC	CAC	CTT	CGG	CAA	GAG	GCC	CAG	GGG	197	
	V	L	S	Q	F	R	L	P	R	T	G	D	R	P	S	T	F	V	G	V	599
GTA	CTG	AGT	CAG	TTC	CGT	CTA	CCC	CGC	ACA	GGG	GAC	CGC	CCC	AGC	ACC	TTC	GTG	GGG	GTC	217	
	H	V	R	R	G	D	Y	L	R	V	M	P	K	R	W	K	G	V	V	G	659
CAC	GTG	CGC	CGC	GGG	GAC	TAT	CTG	CGT	GTG	ATG	CCC	AAG	CGC	TGG	AAG	GGG	GTG	GTG	GGT	237	
	D	G	A	Y	L	Q	Q	A	M	D	W	F	R	A	R	Y	E	A	P	V	719
GAC	GGC	CGT	TAC	CTC	CAG	CAG	GCT	ATG	GAC	TGG	TTC	CGG	GCC	CGA	TAC	GAA	GCC	CCC	GTC	257	
	F	V	V	T	S	N	G	M	E	W	C	R	K	N	I	D	T	S	R	G	779
TTT	GTG	GTC	ACC	AGC	AAC	GGC	ATG	GAG	TGG	TGC	CGG	AAG	AAC	ATC	GAC	ACC	TCC	CGG	GGG	277	
	D	V	I	F	A	G	D	G	R	E	A	A	P	A	R	D	F	A	L	L	839
GAC	GTG	ATC	TTT	GCT	GGC	GAT	GGG	CGG	GAG	GCC	CGC	CCC	GCC	AGG	GAC	TTT	GCG	CTG	CTG	297	
	V	Q	C	N	H	T	I	M	T	I	G	T	F	G	F	W	A	A	Y	L	899
GTG	CAG	TGC	AAC	CAC	ACC	ATC	ATG	ACC	ATT	GGC	ACC	TTC	GGC	TTC	TGG	GCC	GCC	TAC	CTG	317	
	A	G	G	D	T	I	Y	L	A	N	F	T	L	P	T	S	S	F	L	K	959
GCT	GGT	GGA	GAT	ACC	ATC	TAC	TTG	GCT	AAC	TTC	ACC	CTG	CCC	ACT	TCC	AGC	TTC	CTG	AAG	337	
	I	F	K	P	E	A	A	F	L	P	E	W	V	G	I	N	A	D	L	S	1019
ATC	TTT	AAA	CCC	GAG	GCT	GCC	TTC	CTG	CCC	GAG	TGG	GTG	GGC	ATT	AAT	GCA	GAC	TTG	TCT	357	
	P	L	Q	M	L	A	G	P	.											1079	
CCA	CTC	CAG	ATG	TTG	GCT	GGG	CCT	TGA	ACC	AGC	CAG	GAG	CCT	TTC	TGG	AAT	AGC	CTC	GGT	365	
	CAA	CCC	AGG	GCC	AGC	GTT	ATG	GGT	CTC	CGG	AAG	CCC	GAG	TAA	CTT	CCG	GAG	ATG	CTG	GGT	1139
CA	CTG	TAG	CAG	GCT	GGA	CAC	TTA	TTT	CAA	GAG	TGA	TTC	TAA	TTG	GCT	GGA	CTC	AGA	GGA	1199	
AAC	CCT	GCA	G																	1259	
																				1269	

Clean Copy

FIGURE 1

	M	W	V	P	S	R	R	H	L	C	L	T	F	L	L	V	C				
CT	CGA	GCC	ATG	TGG	GTC	CCC	AGC	CGC	CGC	CAC	CTC	TGT	CTG	ACC	TTC	CTG	CTA	GTC	TGT	17	
	V	L	A	A	I	F	F	L	N	V	Y	Q	D	L	F	Y	S	G	L	D	59
GTT	TTA	GCA	GCA	ATT	TTC	TTC	CTG	AAC	GTC	TAT	CAA	GAC	CTC	TTT	TAC	AGT	GGC	TTA	GAC	119	
	L	L	A	L	C	P	D	H	N	V	V	S	S	P	V	A	I	F	C	L	57
CTG	CTG	GCC	CTG	TGT	CCA	GAC	CAT	AAC	GTG	GTA	TCA	TCT	CCC	GTG	GCC	ATA	TTG	TGC	CTG	179	
	A	G	T	P	V	H	P	N	A	S	D	S	C	P	K	H	P	A	S	F	77
GCG	GGC	ACG	CCG	GTA	CAC	CCC	AAC	GCC	TCC	GAT	TCC	TGT	CCC	AAG	CAT	CCT	GCC	TCC	TTT	239	
	S	G	T	W	T	I	Y	P	D	G	R	F	G	N	Q	M	G	Q	Y	A	97
TCC	GGG	ACC	TGG	ACT	ATT	TAC	CCG	GAT	GGC	CGG	TTT	GGG	AAC	CAG	ATG	GGA	CAG	TAT	GCC	299	
	T	L	L	A	L	A	Q	L	N	G	R	Q	A	F	I	Q	P	A	M	H	117
ACG	CTG	CTG	GCC	CTG	CGC	CAG	CTC	AAC	GGC	CGC	CAG	GCC	TTC	ATC	CAG	CCT	GCC	ATG	CAC	359	
	A	V	L	A	P	V	F	R	I	T	L	P	V	L	A	P	E	V	D	R	137
GCC	GTG	CTG	GCC	CCC	GTG	TTC	CGC	ATC	ACG	CTG	CCT	GTG	CTG	GCG	CCC	GAG	GTA	GAC	AGG	419	
	H	A	P	W	R	E	L	E	L	H	D	W	M	S	E	D	Y	A	H	L	157
CAC	GCT	CCT	TGG	CGG	GAG	CTG	GAG	CTT	CAC	GAC	TGG	ATG	TCC	GAG	GAT	TAT	GCC	CAC	TTA	479	
	K	E	P	W	L	K	L	T	G	F	P	C	S	W	T	F	F	H	H	L	177
AAG	GAG	CCC	TGG	CTG	AAG	CTC	ACC	GGC	TTC	CCC	TGC	TCC	TGG	ACC	TTC	TTC	CAC	CAC	CTC	539	
	R	E	Q	I	R	S	E	F	T	L	H	D	H	L	R	Q	E	A	Q	G	197
CGG	GAG	CAG	ATC	CGC	AGC	GAG	TTC	ACC	CTG	CAC	GAC	CAC	CTT	CGG	CAA	GAG	GCC	CAG	GGG	599	
	V	L	S	Q	F	R	L	P	R	T	G	D	R	P	S	T	F	V	G	V	217
GTA	CTG	AGT	CAG	TTC	CGT	CTA	CCC	CGC	ACA	GGG	GAC	CGC	CCC	AGC	ACC	TTC	GTG	GGG	GTG	659	
	H	V	R	R	G	D	Y	L	R	V	M	P	K	R	W	K	G	V	V	G	237
CAC	GTG	CGC	CGC	GGG	GAC	TAT	CTG	CGT	GTG	ATG	CCC	AAG	CGC	TGG	AAG	GGG	GTG	GTG	GGT	719	
	D	G	A	Y	L	Q	Q	A	M	D	W	F	R	A	R	Y	E	A	P	V	257
GAC	GGC	CGT	TAC	CTC	CAG	CAG	GCT	ATG	GAC	TGG	TTC	CGG	GCC	CGA	TAC	GAA	GCC	CCC	GTG	779	
	F	V	V	T	S	N	G	M	E	W	C	R	K	N	I	D	T	S	R	G	277
TTT	GTG	GTC	ACC	AGC	AAC	GGC	ATG	GAG	TGG	TGC	CGG	AAG	AAC	ATC	GAC	ACC	TCC	CGG	GGG	839	
	D	V	I	F	A	G	D	G	R	E	A	A	P	A	R	D	F	A	L	L	297
GAC	GTG	ATC	TTT	GCT	GGC	GAT	GGG	CGG	GAG	GCC	GCG	CCC	GCC	AGG	GAC	TTT	GCG	CTG	CTG	899	
	V	Q	C	N	H	T	I	M	T	I	G	T	F	G	F	W	A	A	Y	L	317
GTG	CAG	TGC	AAC	CAC	ACC	ATC	ATG	ACC	ATT	GGC	ACC	TTC	GGC	TTC	TGG	GCC	GCC	TAC	CTG	959	
	A	G	G	D	T	I	Y	L	A	N	F	T	L	P	T	S	S	F	L	K	337
GCT	GGT	GGA	GAT	ACC	ATC	TAC	TTG	GCT	AAC	TTC	ACC	CTG	CCC	ACT	TCC	AGC	TTC	CTG	AAG	1019	
	I	F	K	P	E	A	A	F	L	P	E	W	V	G	I	N	A	D	L	S	357
ATC	TTT	AAA	CCC	GAG	GCT	GCC	TTC	CTG	CCC	GAG	TGG	GTG	GGC	ATT	AAT	GCA	GAC	TTG	TCT	1079	
	P	L	Q	M	L	A	G	P	(SEQ ID NO: 13)											365	
CCA	CTC	CAG	ATG	TTG	GCT	GGG	CCT	TGA	ACC	AGC	CAG	GAG	CCT	TTC	TGG	AAT	AGC	CTC	GGT	1139	
	CAA	CCC	AGG	GCC	AGC	GTT	ATG	GGT	CTC	CGG	AAG	CCC	GAG	TAA	CTT	CCG	GAG	ATG	CTG	GTG	1199
GTC	CTG	TAG	CAG	GCT	GGA	CAC	TTA	TTT	CAA	GAG	TGA	TTC	TAA	TTG	GCT	GGA	CTC	AGA	GGA	1259	
AAC	CCT	GCA	G	(SEQ ID NO: 12)																1269	